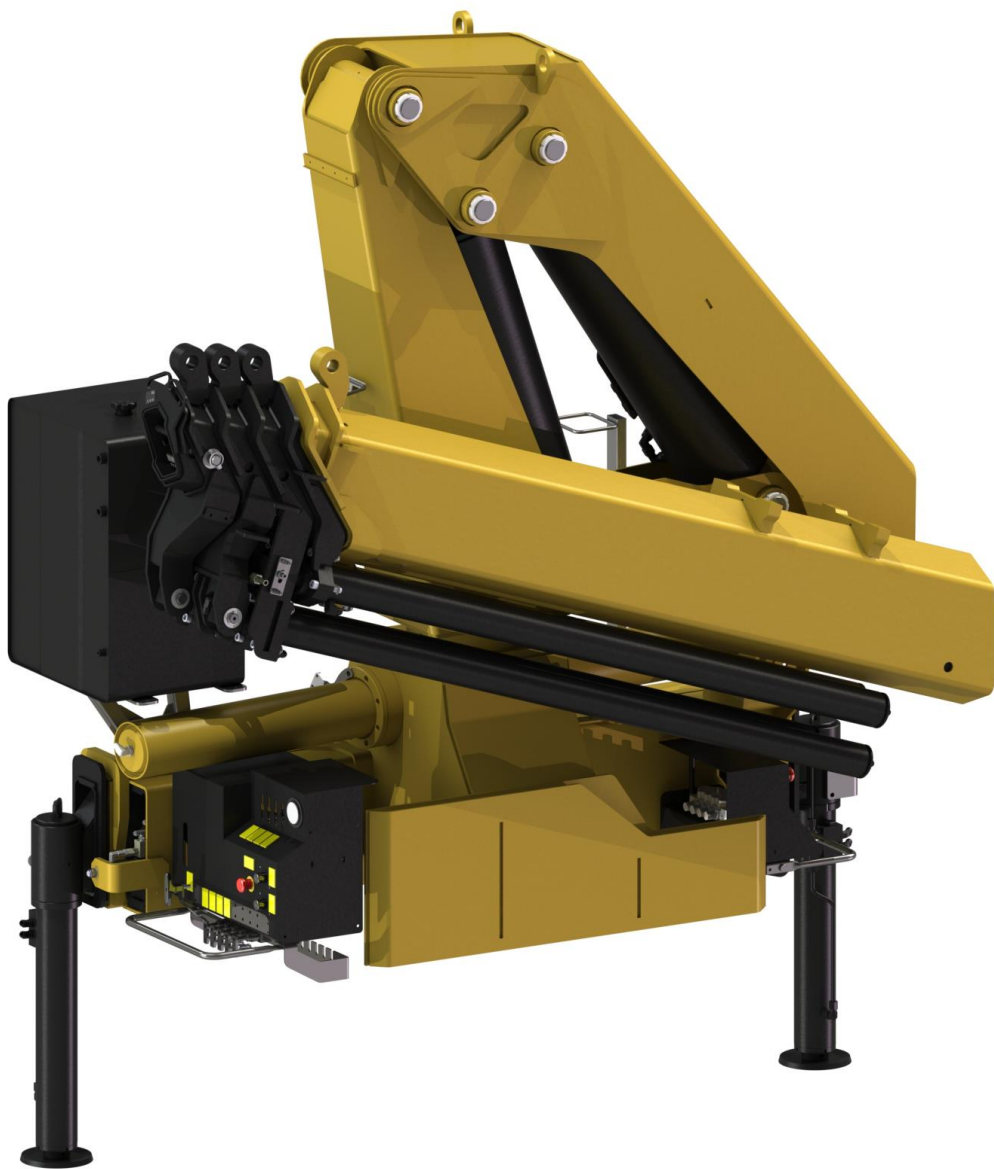


TRUCK MOUNTED CRANE HBR350



HYVA[®] CRANE

www.hyva.com

HBR350 TECHNICAL SHEET

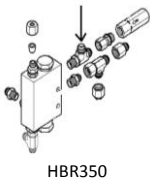
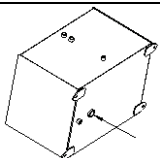
TECHNICAL DATA

Max dynamic moment (daNm)	39900
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	Version	Q _{max}
Max load (kg)	E2	8100
	E3	7930
	E4	7790

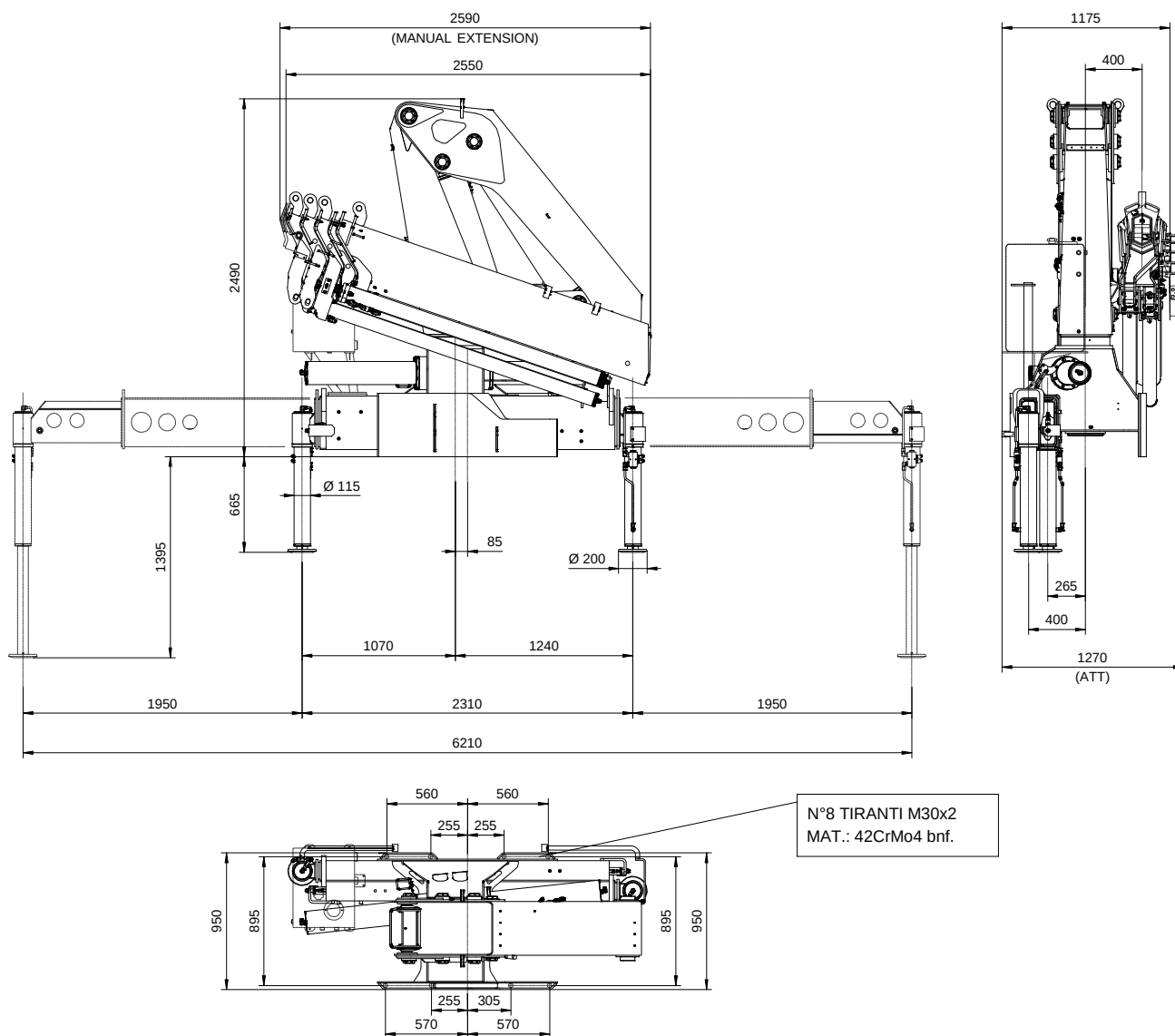
	Version	STD
Crane weight (kg)	E2	3725
	E3	3950
	E4	4160

	STD
Max force on the stabilizer leg (daN)	13215
Max standard stabilizer pressure on the ground (daN/cm ²)	42.1
Max working pressure	300 bar
Max oil flow	35 l/min
Oil tank capacity	160 l
Slewing moment	3525 daNm
Slewing angle	380°
Absorbed power	22.8 kW 30.5 HP
Design standard	EN 12999 UNI EN 13001

Fittings for connection with pump			
Control valve pressure line	 HBR350	 HBR350X	M7/8" - 14 JIC
Tank suction line			M1" 1/2" BSP

HBR350 TECHNICAL SHEET

OVERALL DIMENSION

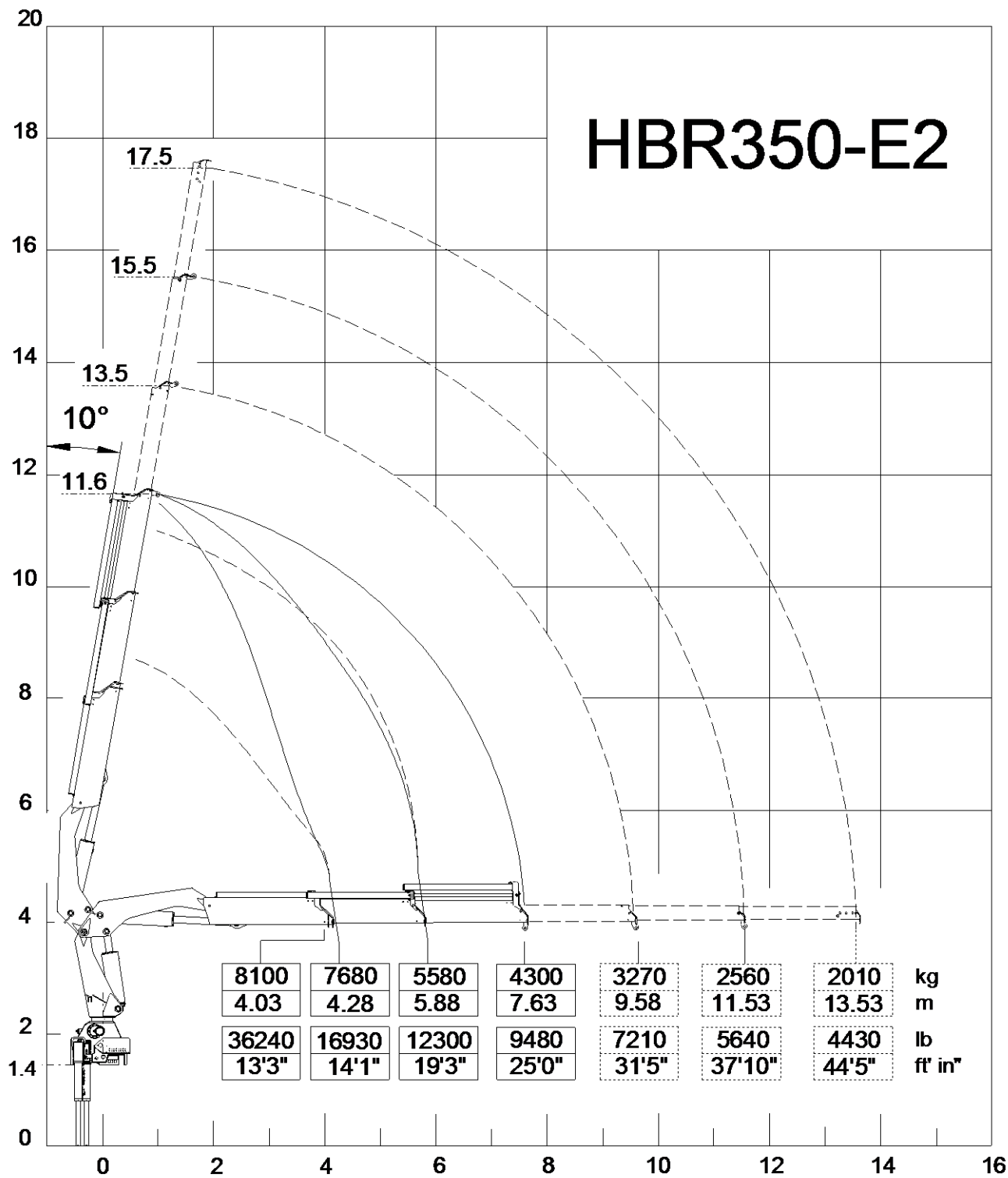


Tie mounting rods	N°8 M30x2 42CrMo4 (<i>quenched and tempered</i>)
Tightening torque	888 Nm

HBR350 TECHNICAL SHEET

LOAD DIAGRAM

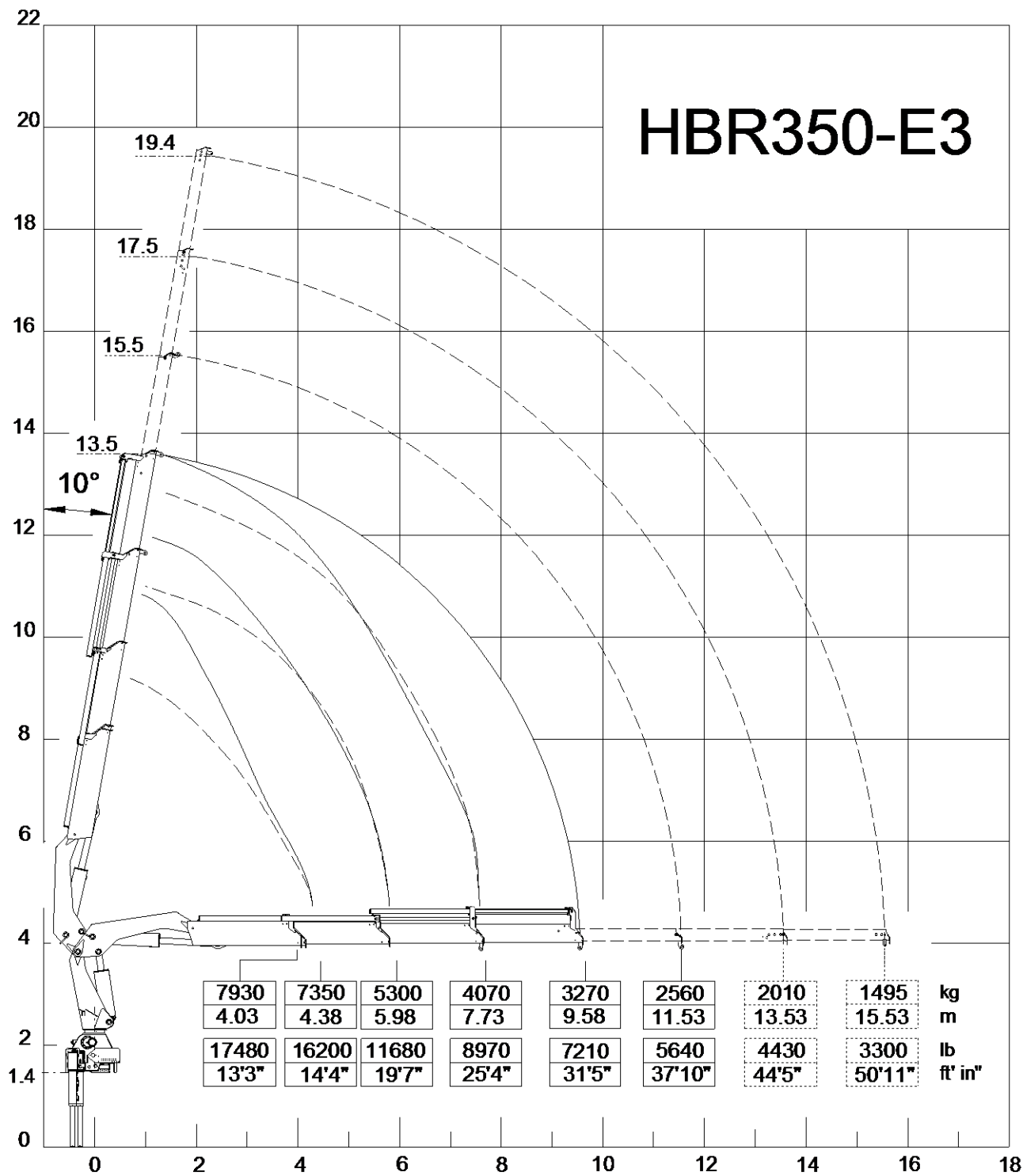
HBR350 E2



HBR350 TECHNICAL SHEET

LOAD DIAGRAM

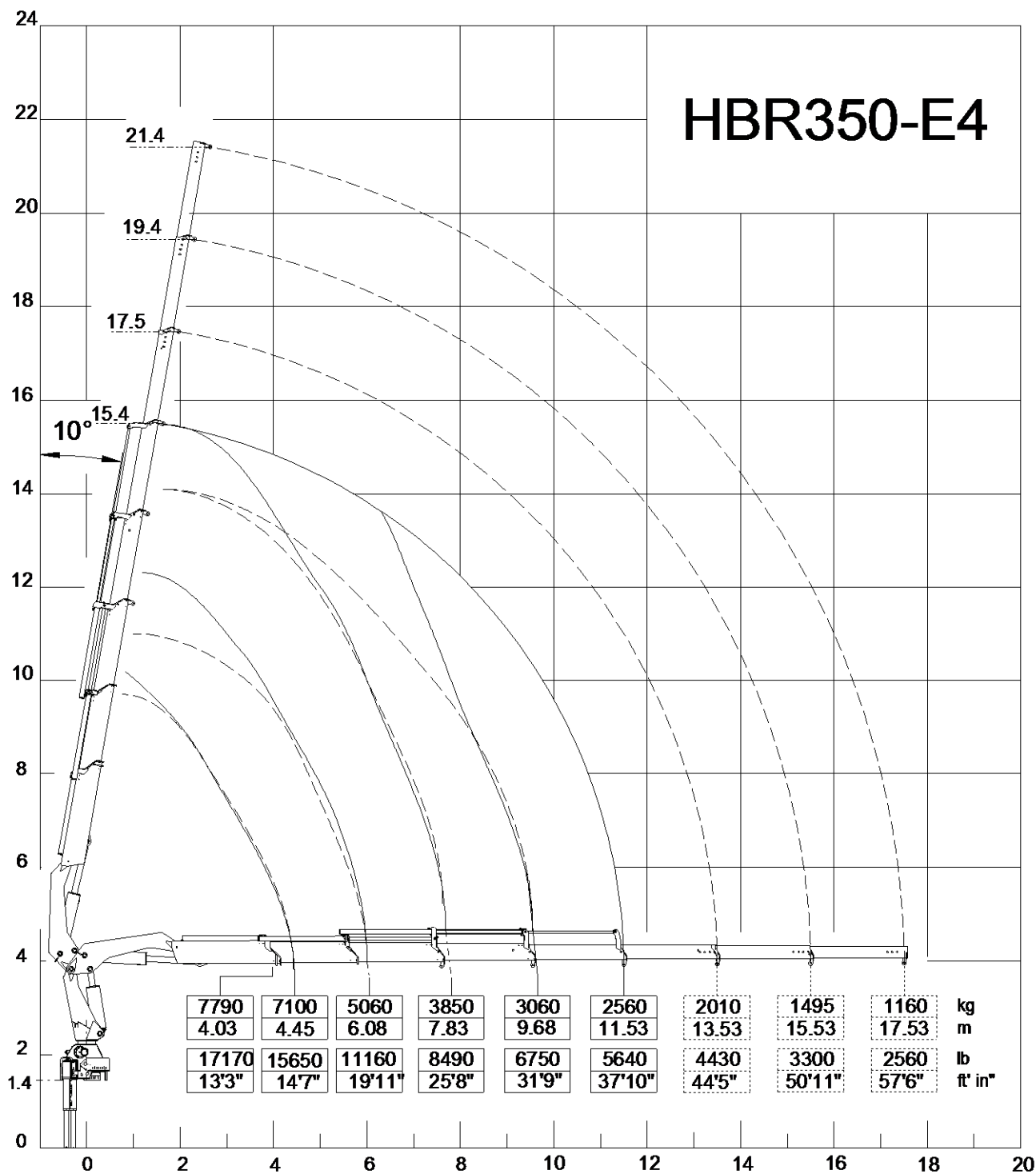
HBR350 E3



HBR350 TECHNICAL SHEET

LOAD DIAGRAM

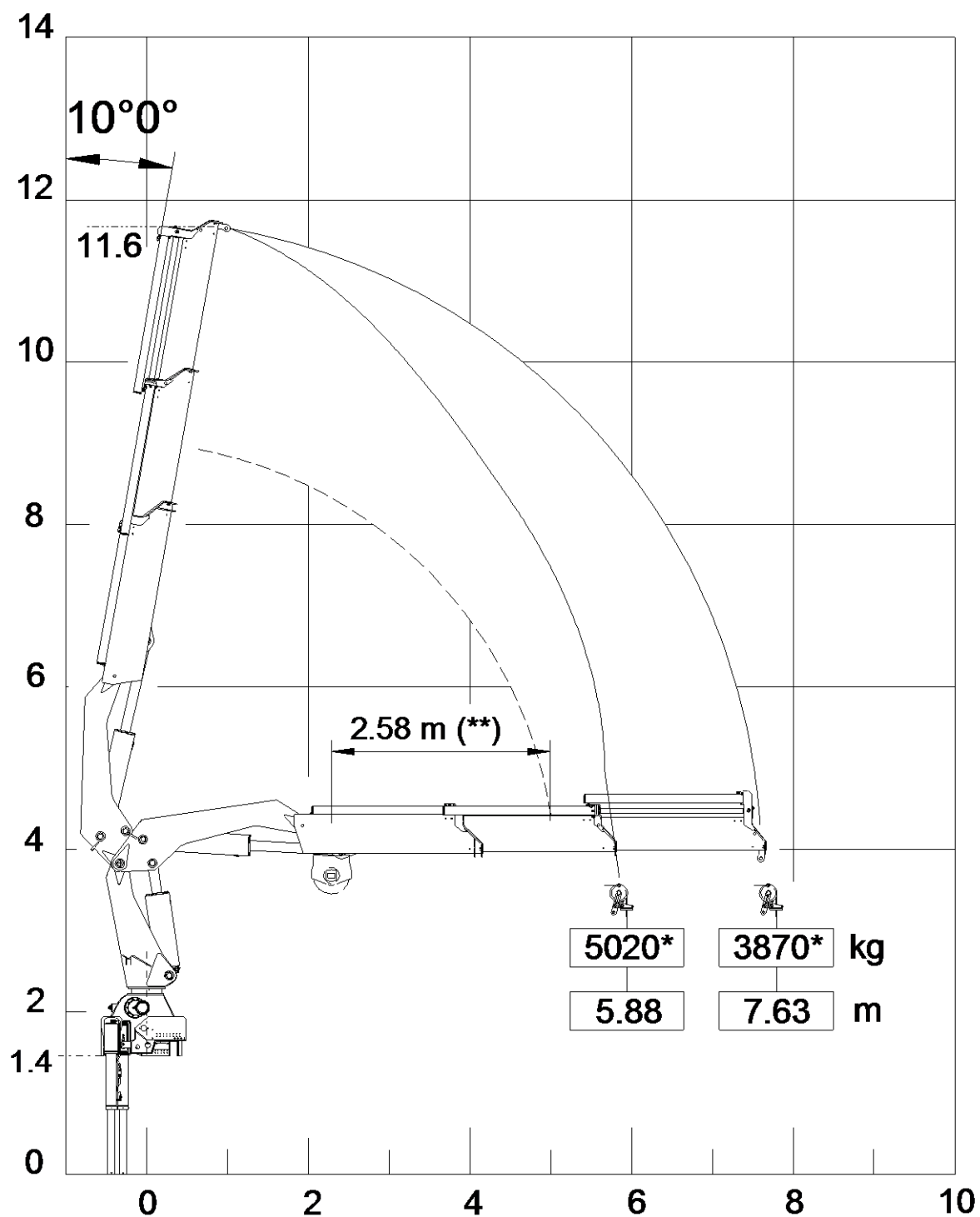
HBR350 E4



HBR350 TECHNICAL SHEET

WINCH LOAD DIAGRAM

HBR350 E2



(*) = Winch pulley with double line pull

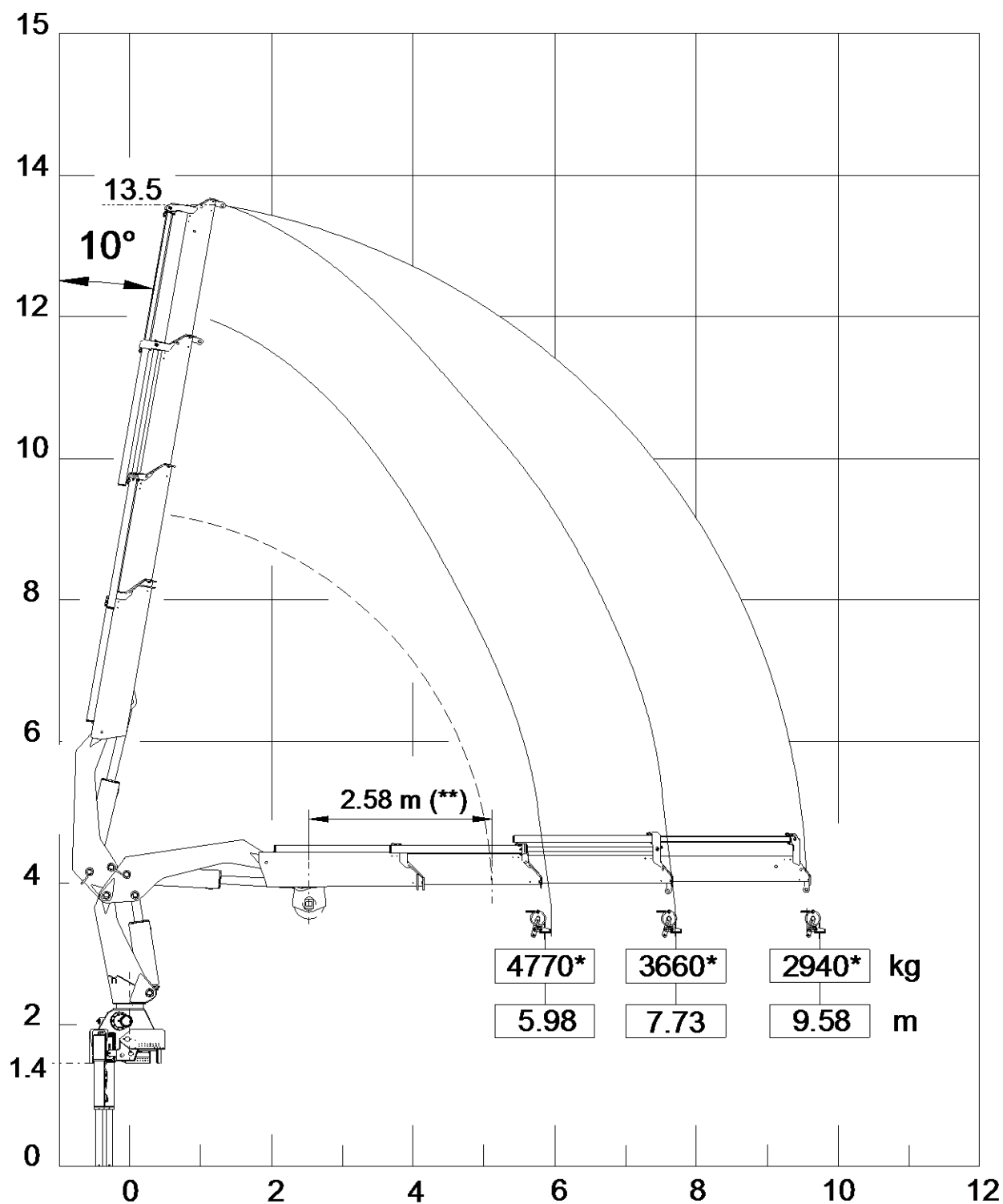
(**) = Min distance for winch use

OSTA Winch OS-3500 – MAX Winch direct pull 2700 kg

HBR350 TECHNICAL SHEET

WINCH LOAD DIAGRAM

HBR350 E3



(*) = Winch pulley with double line pull

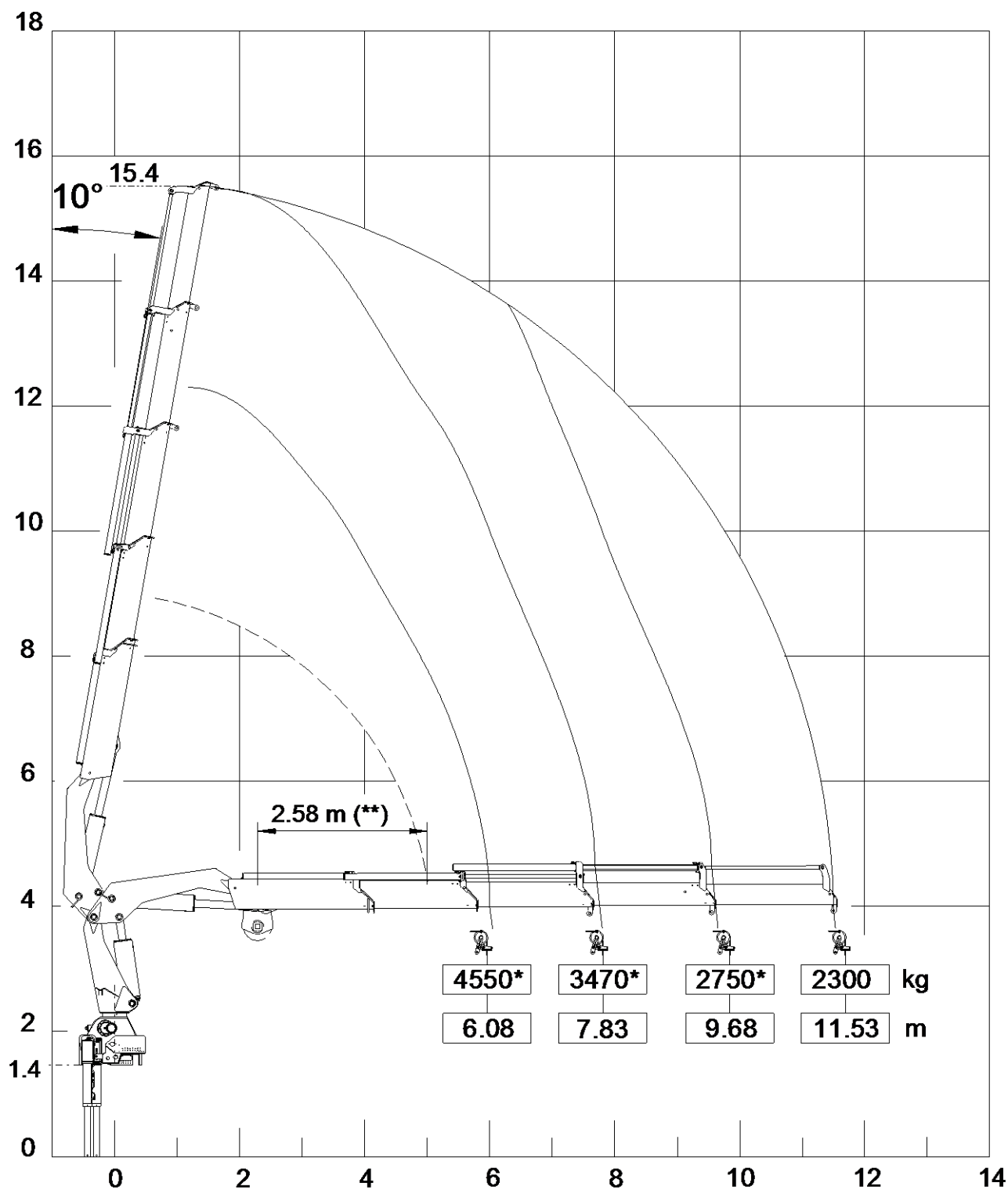
(**) = Min distance for winch use

OSTA Winch OS-3500 – MAX Winch direct pull 2700 kg

HBR350 TECHNICAL SHEET

WINCH LOAD DIAGRAM

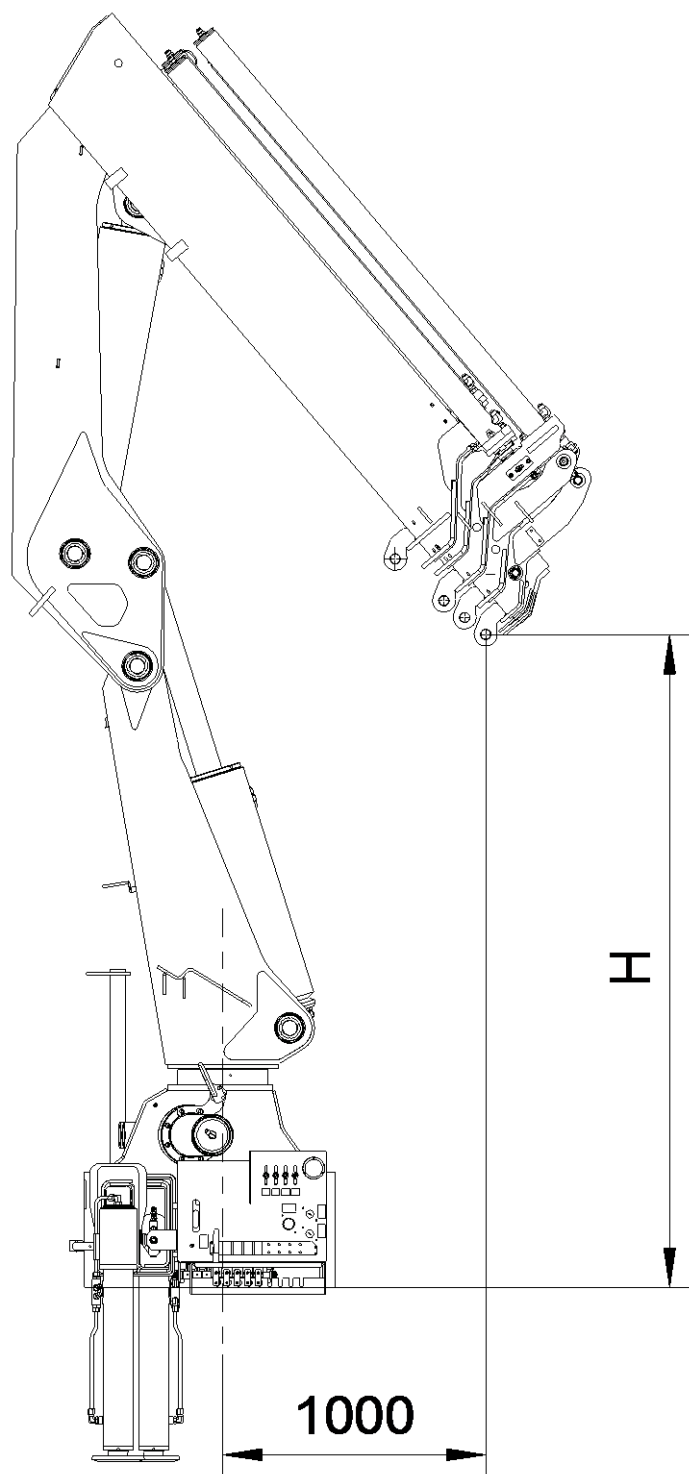
HBR350 E4



(*) = Winch pulley with double line pull

(**) = Min distance for winch use

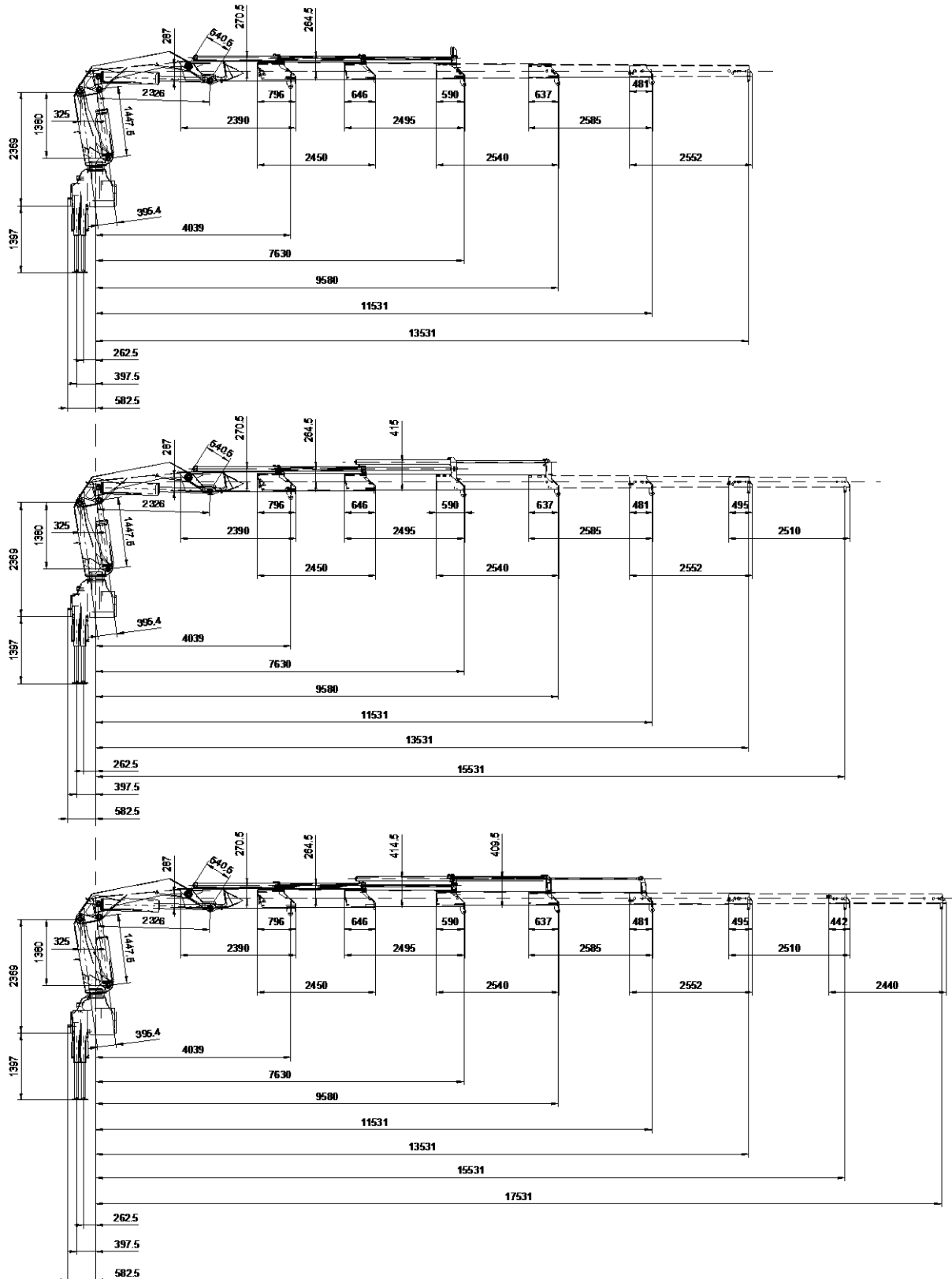
OSTA Winch OS-3500 – MAX Winch direct pull 2700 kg



	H [mm]
E2	2720
E3	2600
E4	2490

HBR350 TECHNICAL SHEET

COLUMN - BOOM - DIMENSIONS



HBR350 TECHNICAL SHEET

CYLINDERS DIMENSIONS

LIFTING CYLINDER

Cylinder bore	210
Cylinder external diameter	255
Rod diameter	100
Pitch (open)	1861
Pitch (closed)	1114.5
Stroke	745
Fittings	1/2" G
Articulation pin Ø	65
Pin steel	39NiCrMo3

ARTICULATION CYLINDER

Cylinder bore	210
Cylinder external diameter	255
Rod diameter	100
Pitch (open)	2326
Pitch (closed)	1341
Stroke	985
Fittings	1/2" G
Articulation pin Ø	65
Pin steel	39NiCrMo3

1ST EXTENSION CYLINDER

Cylinder bore	85
Cylinder external diameter	100
Rod diameter	60 – 40
Pitch (open)	1729
Pitch (closed)	129
Stroke	1600
Fittings	1/2" G
Fixing pin Ø	35
Pin steel	39NiCrMo3 Bnf

2ND EXTENSION CYLINDER

Cylinder bore	85
Cylinder external diameter	100
Rod diameter	70 - 55
Pitch (open)	1879
Pitch (closed)	129
Stroke	1750
Fittings	1/2" G
Fixing pin Ø	35
Pin steel	39NiCrMo3 Bnf

3RD EXTENSION CYLINDER

Cylinder bore	80
Cylinder external diameter	95
Rod diameter	50 - 35
Pitch (open)	1979
Pitch (closed)	129
Stroke	1850
Fittings	1/2" G
Fixing pin Ø	30
Pin steel	C40

4TH EXTENSION CYLINDER

Cylinder bore	80
Cylinder external diameter	95
Rod diameter	45
Pitch (open)	1979
Pitch (closed)	129
Stroke	1850
Fittings	1/2" G
Fixing pin Ø	30
Pin steel	C40

STABILIZER EXTENSION CYLINDER

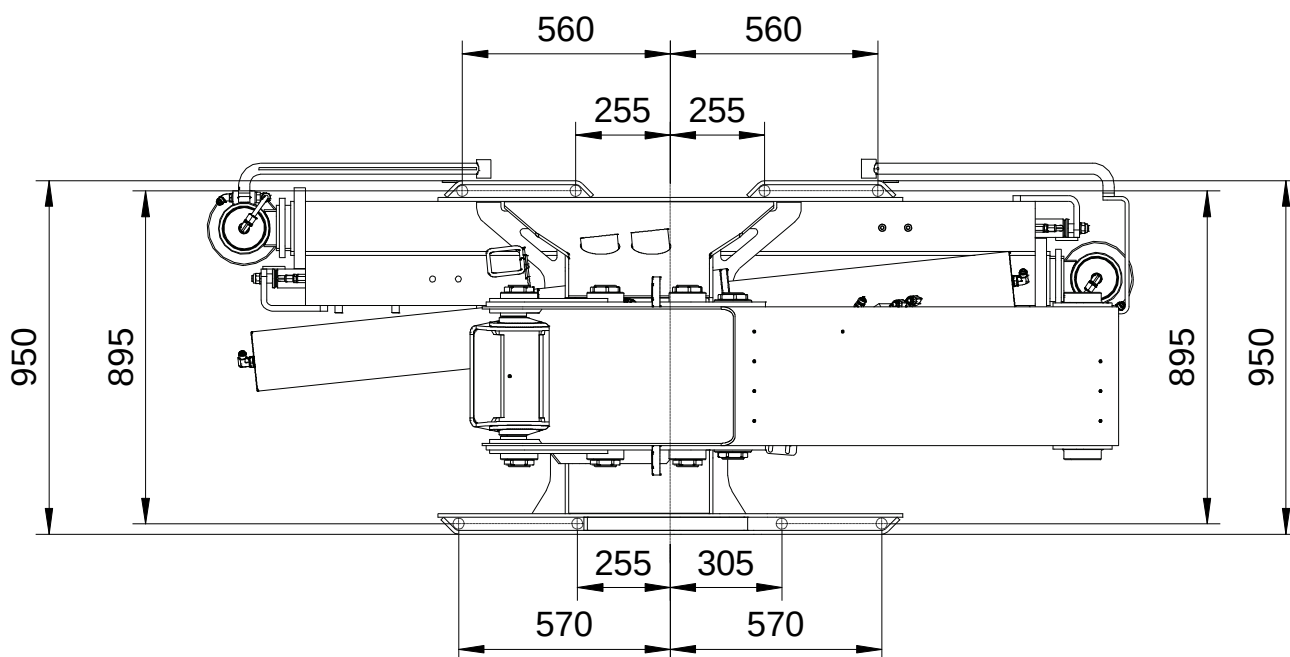
Cylinder bore	40
Cylinder external diameter	50
Rod diameter	25
Pitch (open)	4084
Pitch (closed)	2134
Stroke	1950
Fittings	9/16" - 18
Articulation pin Ø	20
Pin steel	C40

STABILIZER CYLINDER

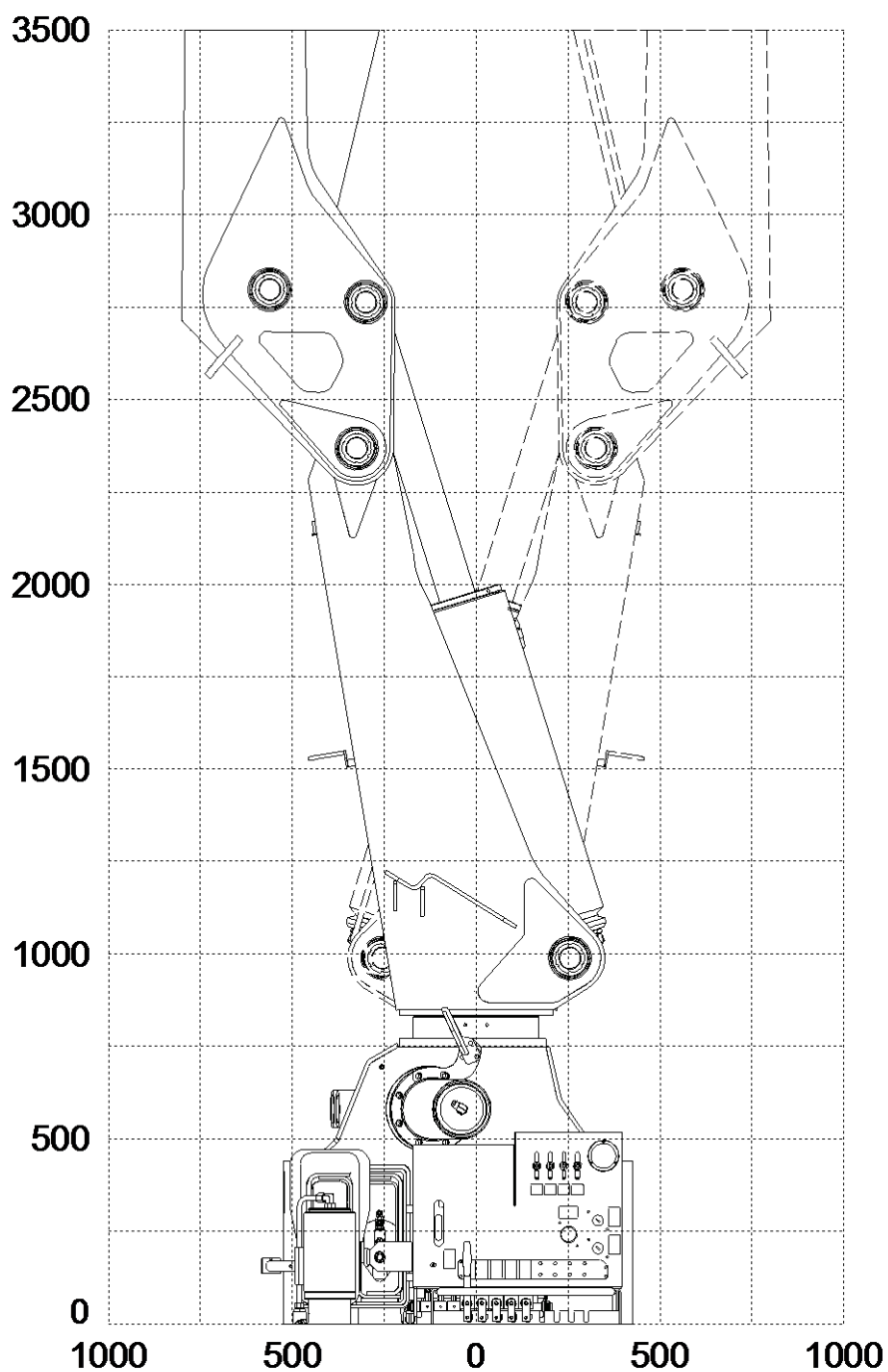
Cylinder bore	100
Cylinder external diameter	115
Rod diameter	75
Pitch (open)	1468
Pitch (closed)	732
Stroke	736
Fittings	1/2" G
Fixing pin Ø	-
Pin steel	-

HBR350 TECHNICAL SHEET

BASE DIMENSIONS

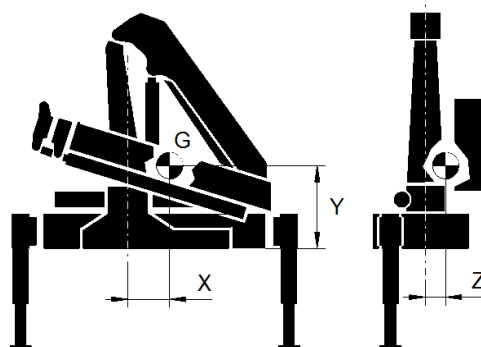
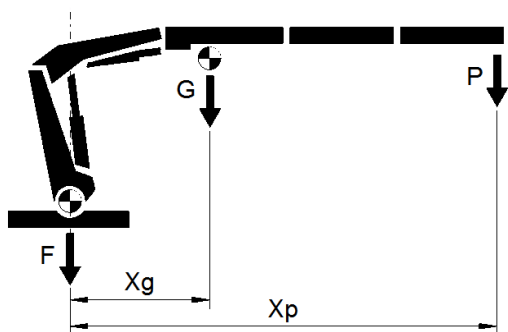


Tie mounting rods	N°8 M30x2 42CrMo4 Bnf.
Rotation cylinder fixing bolts	N°8 M16X60 12.9 UNI 5931 Tightening torque 291 Nm



HBR350 TECHNICAL SHEET

WEIGHTS - CENTER OF GRAVITY



HBR350	F [kg]	G [kg]	Xg [m]	P [kg]	Xp [m]	TL [kg]	X [mm]	Y [mm]	Z [mm]
E2	2260	1465	2.66	4300	7.63	5375	145	891	-12
E3		1690	3.34	3270	9.58	4088	132	900	12
E4		1900	4.07	2560	11.53	3206	120	907	29

F = weight of fixed parts

G = weight of extension booms

Xg = distance of G from column axis

P = nominal load

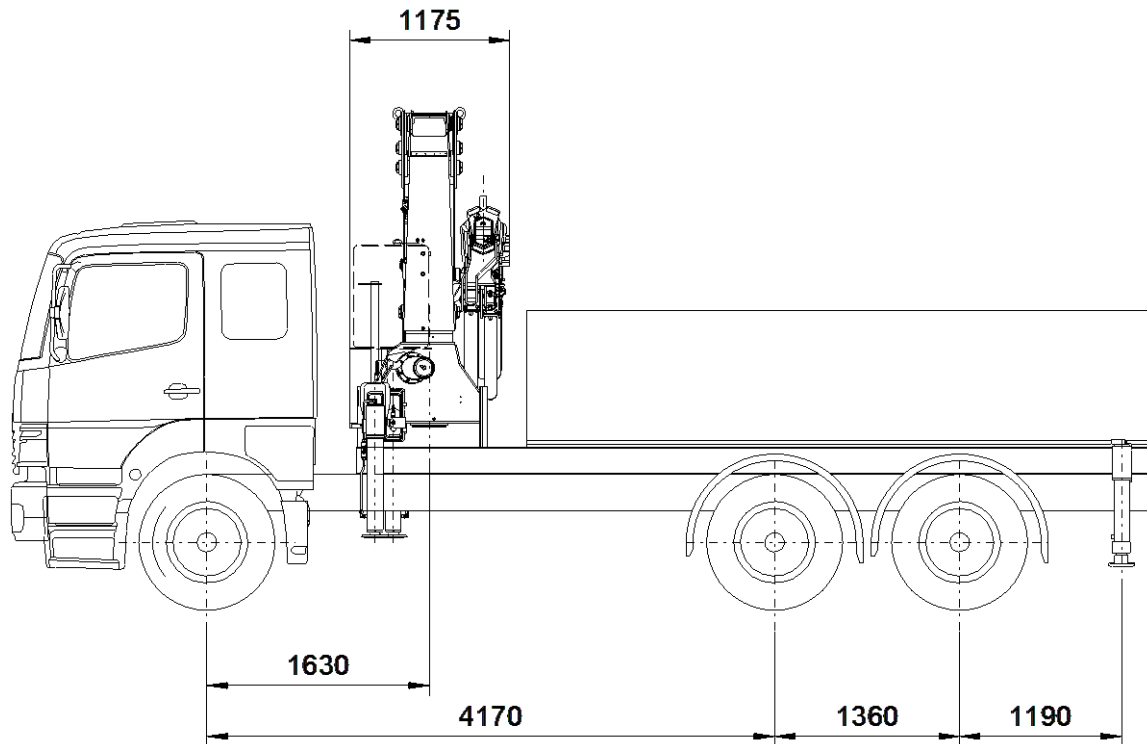
Xp = distance of P from column axis

TL = stability test load

X, Y, Z = center of gravity coordinates (closed crane)

HBR350 TECHNICAL SHEET

MIN TRUCK WITH SUPPLEMENTARY STABILIZERS



GVW= 24 t

CHASSIS DATA

Front axle

Front axle tare weight = 3200 kg

Allowable front axle weight = 6000 kg

Rear axle

Rear axle tare weight = 3100 kg

OUTFIT WEIGHTS

Body weight = 1000 kg

Crane weight = 4160 kg (HBR350 E4)

Counterframe weight = 950 kg

Rear beam stabilizers

Min. width = 5000 mm

Rear stabilizer weight = 575 kg

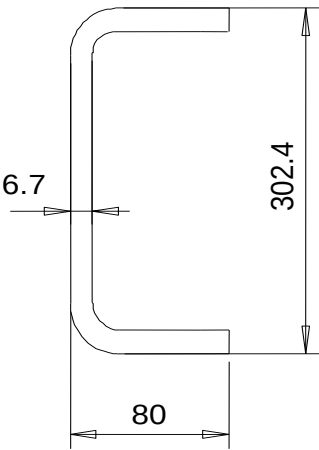
Stability index = 1,3

HBR350 TECHNICAL SHEET

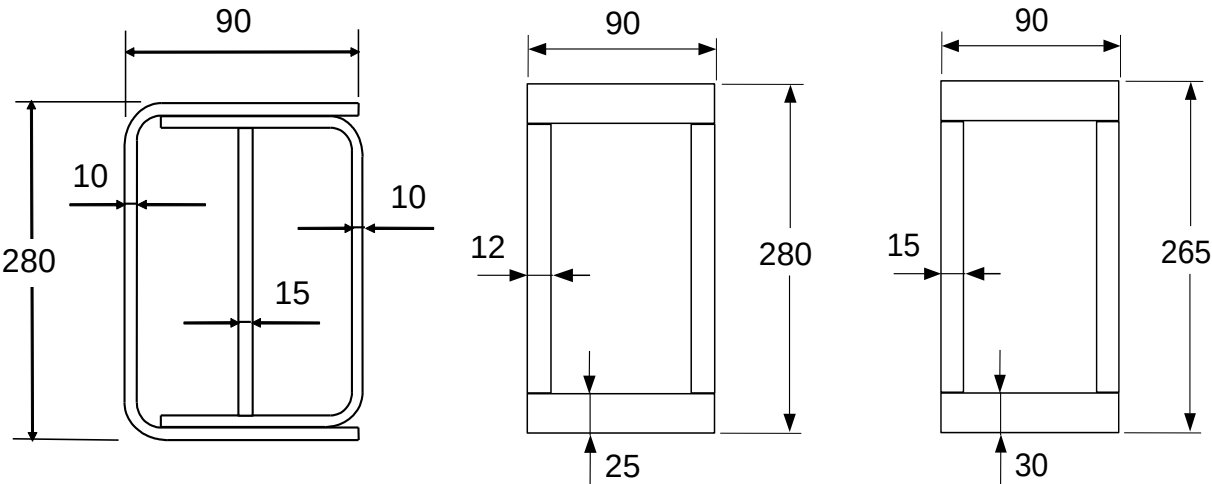
MIN COUNTERFRAME

Max dynamic moment [daNm]	39900
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Min frame section (truck GVW = 24 ton)



Min counterframe section (steel S355)

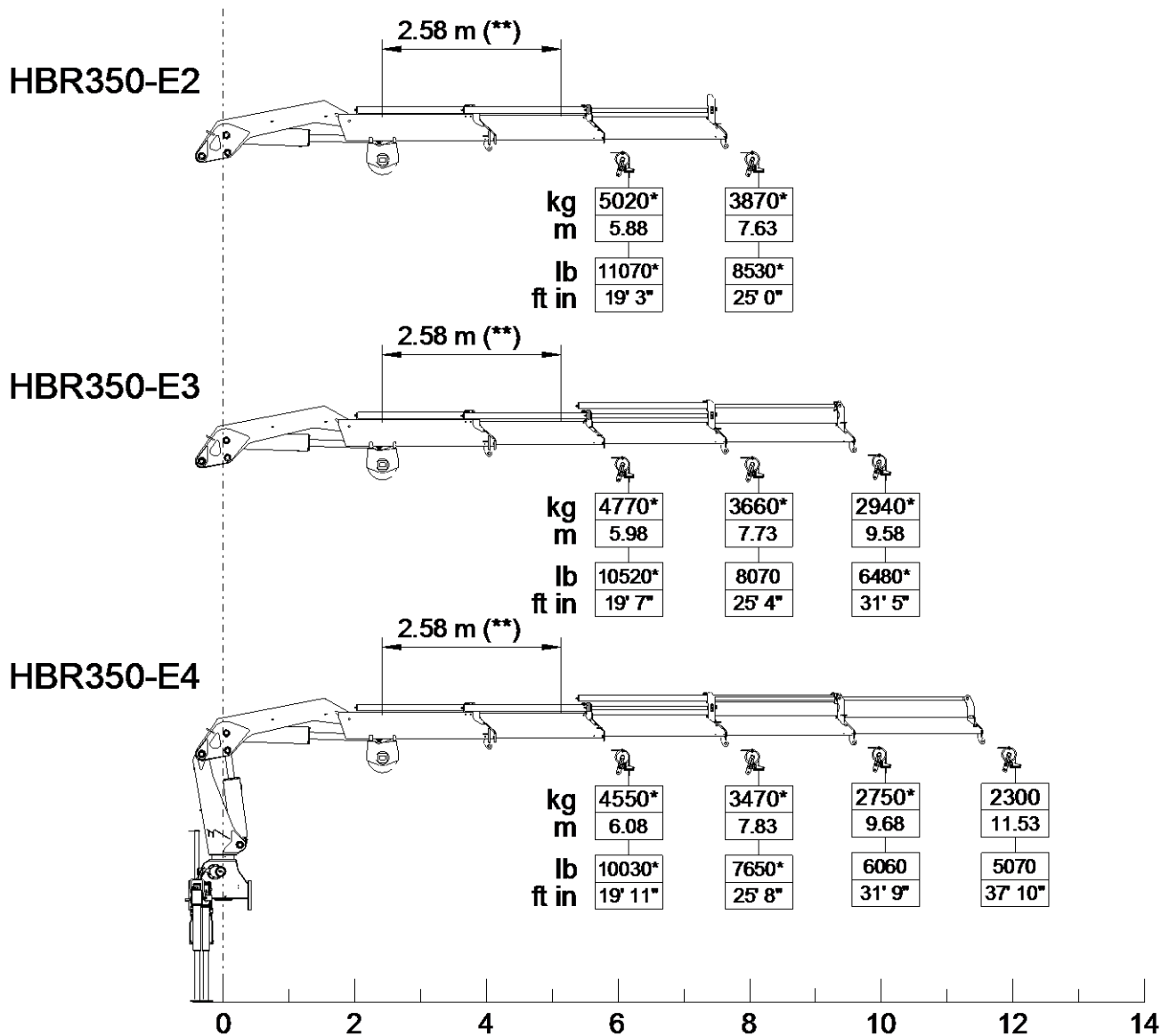


HBR350 TECHNICAL SHEET

HYDRAULIC WINCH DATA

Max winch direct pull (kg)

2700



(*) = Winch pulley with double line pull (**) = Min distance for using the winch

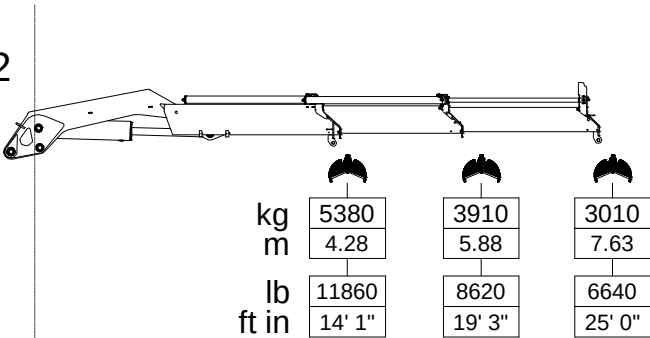
OSTA Winch OS-3500 – MAX Winch direct pull 2700 kg

HBR350 TECHNICAL SHEET

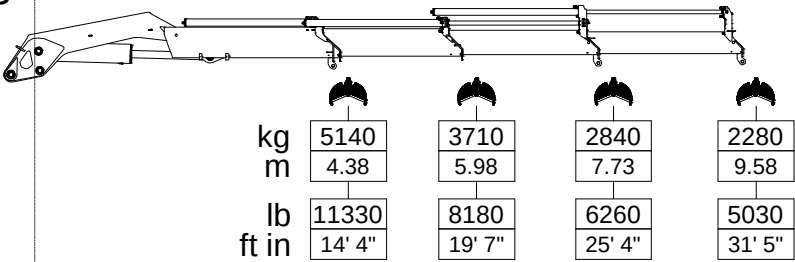
GRAB BUCKET DATA

Max allowable weight (kg)	420
Max working pressure (bar)	240

HBR350-E2



HBR350-E3



HBR350-E4

